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KRUMHOLZ & MENTLIK			DANG, HUNG Q	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/029,903	KATO ET AL.		
Office Action Summary	Examiner	Art Unit		
	Hung Q. Dang	2621		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time vill apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONET	I. lely filed the mailing date of this communication. O (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on 12 Oct This action is FINAL. 2b) ☐ This Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Claims	•			
4) Claim(s) 1-8,10-12 and 14 is/are pending in the 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-8, 10-12, and 14 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	vn from consideration.	*·		
Application Papers				
9) The specification is objected to by the Examiner 10) The drawing(s) filed on <u>03 January 2007</u> is/are: Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Example 11.	a)⊠ accepted or b)□ objected drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te		

DETAILED ACTION

Response to Arguments

Applicant's arguments filed 10/12/2007 have been fully considered but they are not persuasive.

At page 11, Applicant argues that after reviewing the Sakai reference, it is unclear whether the combined AV stream is recorded. Accordingly, Sakai fails to meet the recorded Bridge Clip AV stream as recited in the present claims. In response, the Examiner respectfully disagrees as in [0011] Sakai clearly recites, "the combined video signal being recorded to the optical disk only with respect to the transition period." Thus, Sakai meets the recorded Bridge Clip AV stream as recited in the claims.

At page 12, Applicant argues that Sakai does not disclose using the combined AV stream to "achieve a seamless playback". In response, the Examiner respectfully disagrees. In [0033], [0084], and [0106], Sakai recites, "to reproduce video and audio signals continuously", "outputs the coded data from the memory to the data expansion circuit in a continuous data train", and "the data are output from the memory in a continuous video signal train" respectively. Being reproduced "continuously" implies "without interruption", which in turns implies seamless.

Also at page 12, Applicant argues that Sakai does not disclose "a bit flag indicating the type of AV stream". In response, the Examiner respectfully disagrees. As claimed, "clip stream type information included in the clip information for said Bridge Clip AV stream indicates that said third AV stream is a Bridge Clip AV stream." In Sakai, the "transition mode" indicates type of Bridge Clip AV stream, e.g., "fade-in", "fade-out"

Art Unit: 2621

Bridge Clip AV stream in [0070] or "wipe" Bridge Clip AV stream in [0046]. Obviously, this is the clip stream type information as claimed because it indicates this is a Bridge Clip AV stream vs. a stream having no "transition mode" in the editing list.

For those reasons, the claims stand rejected as previously presented.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 7-8, 10-12, and 14 are rejected under 35 U.S.C. 102(e) as being anticipated by Sakai et al. (US 2003/0012550).

Claim 1 recites an information processing apparatus, comprising (1) a generator operable to generate a Bridge Clip AV stream from a first AV stream and a second AV stream to consist of portions of each of those streams; and to generate clip information that includes address information as information pertinent to said Bridge Clip AV stream and a clip stream type information for the Bridge Clip AV stream; (2) a recorder to record the generated Bridge Clip AV stream and clip information; wherein said Bridge Clip AV stream maintains continuity to achieve a seamless playback and said clip stream type information included in the clip information for said Bridge Clip AV stream indicates that said third AV stream is a Bridge Clip AV stream.

Art Unit: 2621

Sakai et al. anticipate an video editing/recording apparatus, comprising (1) a generator operable to generate a combined AV stream, which is a Bridge Clip AV stream, from the first AV stream and second AV stream for only a transition period [0011] using preset portions of the inputted streams (Fig. 4A-4G) and an editing list [0071], which is the clip information, including editing points (in-points and out-points) to mark the cuts [0086], which are the address information to the first and second AV streams [0098]. The editing list also includes "transition mode" for each combined AV stream ([0067]; the "transition mode" is the "clip stream type information" as described in "Response to Arguments" above) (2) a recorder to record the generated Bridge Clip AV stream and the editing list ([0072]; also see "Response to Arguments" above); wherein said Bridge Clip AV stream maintains continuity to achieve a seamless playback (Fig. 4F; Fig. 4G; "Bridge Clip AV stream being X1 or X2 maintains continuity of playback of AV streams a, b, and d in Fig. 4G; thus achieve a seamless playback; also see "Response to Arguments" above) and said clip stream type information included in the clip information for said Bridge Clip AV stream indicates that said third AV stream is a Bridge Clip AV stream (the "transition mode" indicates type of Bridge Clip AV stream, e.g. "fade-in", "fade-out" Bridge Clip AV stream in [0070] or "wipe" Bridge Clip AV stream in [0046]).

Claim 7 is rejected for the same reason as discussed in claim 1 above.

Claim 8 is rejected for the same reason as discussed in claim 1 above.

Claims 10-12 recite an information processing apparatus, an information processing method, and a recording medium having recorded thereon a computer-

Art Unit: 2621

readable program for processing information, comprising: (1) reproducing or a reproducing unit operable to reproduce a recording medium having recorded thereon a first AV stream, a second AV stream, a Bridge Clip AV stream consisting of preset portions of the first and second AV stream, and clip information that includes address information pertinent to said Bridge Clip AV stream and clip stream type information for the Bridge Clip AV stream, said Bridge Clip AV stream being reproduced when reproduction is switched from said first AV stream to said second AV stream, including address information on addresses of source packets of the first and the second AV streams; (2) controlling or a controller operable to control said reproducing step or unit for switching reproduction from said first AV stream readout-controlled in a first readout controlling step to said Bridge Clip AV stream and from said Bridge Clip AV stream to said second AV stream, based on information pertinent to said Bridge Clip AV stream. readout-controlled in a second readout controlling step; wherein said Bridge Clip AV stream maintains continuity to achieve a seamless playback and said clip stream type information included in the clip information for said Bridge Clip AV stream indicates that said third AV stream is a Bridge Clip AV stream.

Sakai et al. anticipate an information processing apparatus, an information processing method, and a recording medium having recorded thereon a computerreadable program for processing information, comprising: (1) reproducing or a reproducing unit operable to reproduce a recording medium having recorded thereon a first AV stream, a second AV stream, a Bridge Clip AV stream consisting of preset portions of the first and second AV stream ([0011], Fig. 4A-4G), and an editing list

Art Unit: 2621

[0071], which is the clip information, including editing points (in-points and out-points) to mark the cuts [0086], which are the address information to the first and second AV streams [0098]. The editing list also includes "transition mode" for each combined AV stream ([0067]; the "transition mode" is the "clip stream type information" as described in "Response to Arguments" above), said Bridge Clip AV stream being reproduced when reproduction is switched from said first AV stream to said second AV stream. including address information on addresses of source packets of the first and the second AV streams ([0071], [0086], [0098]); (2) controlling or a controller operable to control said reproducing step or unit for switching reproduction from said first AV stream readout-controlled in a first readout controlling step to said Bridge Clip AV stream and from said Bridge Clip AV stream to said second AV stream, based on information pertinent to said Bridge Clip AV stream, readout-controlled in a second readout controlling step ([0093]); wherein said Bridge Clip AV stream maintains continuity to achieve a seamless playback (Fig. 4F; Fig. 4G; "third AV stream being X1 or X2 maintains continuity of playback of AV streams a, b, and d in Fig. 4G; thus achieve a seamless playback; also see "Response to Arguments" above) and said clip stream type information included in the clip information for said Bridge Clip AV stream indicates that said third AV stream is a Bridge Clip AV stream (the "transition mode" indicates type of Bridge Clip AV stream, e.g. "fade-in", "fade-out" Bridge Clip AV stream in [0070] or "wipe" Bridge Clip AV stream in [0046]).

Claim 14 recites a recording medium having recorded thereon address information, comprising: (1) a Bridge Clip AV stream consisting of preset portions of the

Art Unit: 2621

first and second AV streams and being reproduced when reproduction is switched from said first AV stream to said second AV stream; (2) clip information that includes address information as information pertinent to said Bridge Clip AV stream and clip stream type information for the Bridge Clip AV stream, said address information including information on addresses of source packets of said first and second AV streams at a time of switching of reproduction from said first AV stream to a third AV stream and from said third AV stream to said second AV stream; wherein said Bridge Clip AV stream maintains continuity to achieve a seamless playback and said clip stream type information included in the clip information for said Bridge Clip AV stream indicates that said third AV stream is a Bridge Clip AV stream.

Sakai et al. anticipate a recording medium having recorded thereon address information, comprising: (1) a Bridge Clip AV stream consisting of preset portions of the first and second AV streams and being reproduced when reproduction is switched from said first AV stream to said second AV stream ([0011], [0012], Fig. 4A-4G) (2) and an editing list [0071], which is the clip information, including editing points (in-points and out-points) to mark the cuts [0086], which are the address information to the first and second AV streams [0098]. The editing list also includes "transition mode" for each combined AV stream ([0067]; the "transition mode" is the "clip stream type information" as described in "Response to Arguments" above), said address information including information on addresses of source packets of said first and second AV streams at a time of switching of reproduction from said first AV stream a third AV stream and from said third AV stream to said second AV stream ([0071], [0086], [0098], and [0072]);

wherein said Bridge Clip AV stream maintains continuity to achieve a seamless playback (Fig. 4F; Fig. 4G; "third AV stream being X1 or X2 maintains continuity of playback of AV streams a, b, and d in Fig. 4G; thus achieve a seamless playback; also see "Response to Arguments" above) and said clip stream type information included in the clip information for said Bridge Clip AV stream indicates that said third AV stream is a Bridge Clip AV stream (the "transition mode" indicates type of Bridge Clip AV stream, e.g. "fade-in", "fade-out" Bridge Clip AV stream in [0070] or "wipe" Bridge Clip AV stream in [0046]).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sakai et al. (US 2003/0012550) as applied to claims 1, 7-8, 10-12, and 14 above, and further in view of Lenihan et al. (US Patent 6,169,843).

Claim 2 recites the arrival time stamp of the source packet of the first AV stream being continuous with that of a first source packet at the leading end of the third AV stream; and the arrival time stamp of the source packet at the trailing end of the third AV stream being continuous with that of a second source packet of the second AV stream.

Claim 3 recites a sole discontinuous point exists in an arrival time stamp of said second source packet of the third AV stream.

Sakai et al. do not teach arrival time stamp being continuous at link boundary.

Sakai et al. also do not teach a sole discontinuous point existing in an arrival time stamp of a source packet of the third AV stream.

Lenihan et al. teach a recording and playback of audio-video transport streams, which in record mode, an arrival time stamp including an arrival time stamp indicating discontinuity within a series of subsequent transport packets (column 11, lines 44-52), is generated for each input transport packet to be recorded (column 9, lines 47-49). When reproduced, the arrival time stamp value from the immediately following transport packet is then loaded into STC as the current time (column 11, lines 55-57):

One of ordinary skill in the art at the time the invention was made would have been motivated to incorporate the method of using arrival time stamps, including the timestamp discontinuity feature, taught by Lenihan et al. into the recording/reproduction apparatus taught by Sakai et al. One of ordinary skill in the art at the time the invention was made would have had a reasonable expectation of combining the use of arrival time stamps, including the timestamp discontinuity feature, taught by Lenihan et al. and the recording/reproduction apparatus taught by Sakai et al. because, according to Lenihan et al., it permits transport packets to be delivered to a playback device continuously without requiring alteration in the previously stored ATS values (column 11, 58-61).

Claims 4-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sakai et al. (US 2003/0012550) and Lenihan et al. (US Patent 6,169,843) as applied

to claims 1-3, 7-8, 10-12, and 14 above, and further in view of Nakatani et al. (US Patent 6,118,924).

Claims 4-6 recite the addresses are determined so that a data portions of AV streams previous and subsequent to the source packets of the first and second AV streams respectively, and the third AV stream are located in a continuous area of not less than a preset size on a recording medium.

Sakai et al. and Lenihan et al. do not teach the minimum area of continuity on a recording medium.

Nakatani et al. teach the minimum physically continuous extent length required for continuous reproduction of AV data (column 35, Formula 6, Formula 9, Formula 10; column 36, Formula 12).

One of ordinary skill in the art at the time the invention was made would have been motivated to incorporate the requirement on minimum physically continuous area for storing AV data taught by Nakatani et al. into the information processing apparatus with continuous arrival time stamps at link boundary taught by Sakai et al. and Lenihan et al. because, otherwise, the amount of AV data in the buffer could decrease to zero and continuous reproduction would not be guaranteed (column 35, lines 1-7).

Therefore, the invention as a whole would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made, absent unexpected results to the contrary.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung Q. Dang whose telephone number is 571-270-1116. The examiner can normally be reached on M-Th:7:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thai Tran can be reached on 571-272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Hung Dang Patent Examiner SUPERVOOR ON THE REPORT OF THE PROPERTY OF THE